



# N O E E N M A L I K ( P h D )

Nuclear Medicine Scientist & Business Strategist

## CONTACT

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1125 W, 12<sup>th</sup> Ave  
Vancouver, BC, V6H 3Z3

## HIGHLIGHTS

- Clinical Imaging Book Co-Author: [The PET Method: Tracer Principle and Radiochemistry](#)
- Nuclear Medicine Scientist (Specialization: Drug Design and PET/CT/SPECT Imaging)
- Clinical Radiopharmaceuticals Expert (cGMP Compliance : Production, QA/QC, IND)
- Marketing Strategist & Events Organizer ([Chair & Lead of SCWIST Science Symposium, A National Competition for Young Scientists Across Canada](#)) (Sponsorship: 19.95 k CAD)
- [Business Strategist \(Specialization: Theragnostics\)](#)
- [Science Communicator / Illustrator](#)
- Digital cartoonist for a book project on "[Corona Story for children](#)" (Under Development), & "[Science Myths](#)" – playing deck for children

## EDUCATION

**DOCTORATE DEGREE**  
(*magna cum laude*; 1.0)  
**RADIOCHEMISTRY**  
Eberhard-Karls University, Tuebingen,  
Germany  
2008 – 2011

## SKILLS

### | Business

SWOT, MOST, BPM, Case Modelling, Non-functional requirement, PESTLE, GAP, CATWOE, RFPs (CROs, CMOs), IP (Application preparation and filing)

### | Clinical cGMP

**Radiopharmaceuticals:**  
[\[<sup>18</sup>F\]FDOPA](#), [<sup>18</sup>F]FES, [<sup>18</sup>F]FET, [<sup>18</sup>F]FMISO, [<sup>18</sup>F]Fallypride, [<sup>11</sup>C]Methionine, [<sup>11</sup>C]PIB, [<sup>11</sup>C]Raclopride, [<sup>11</sup>C]PBR28, [<sup>68</sup>Ga]PSMA-HBED, [<sup>11</sup>C]MRB

### Automation:

Nano Tek CE Advion, GE TRACERlabs (FXC Pro & FXN Pro), FASTlab synthesizer GE, GRP synthesizer Scintomics

### Documentation:

SOPs, MBRs, IND (eCTD-FDA, *Research & Investigation*)

### QA/QC:

Gamma-spectrometer, LC/MS, GC/FID, GC/MS, NMR, IR, Mass, Phosphorimager

## WORK EXPERIENCE (CHRONOLOGICAL)

### Board Positions

#### Executive Director of Public Affairs

[GIANT](#), California | May 2021 — Present

- Managing:** Team and projects related to marketing and communication.
- As an infrastructure committee member, working to develop a strategic business plan for next 5 years.

#### Director of Communication & Events

SCWIST, Vancouver | June 2021 — Present (*Acting-March 2021— June 2021*)

- Managing & Organizing:** Team, events, digital marketing, soliciting sponsorships, communications, and events budget.

### Business

#### Corporate Partner Strategist

[eSRS](#), May 2020 | November 2020 — April 2021

- Solicited:** Strategist for soliciting corporate partners (*Read testimonial [here](#)*).

#### Commercialization Intern

TRIUMF Innovations | February 2020 — July 2020

- Prepared:** Business reports / case development (*Companies global shares, Market size, Risk assessments, Targeted customers, Profit margin, Future directions etc.*) for [<sup>68</sup>Ga] via cyclotron, [<sup>89</sup>Zr], [<sup>64</sup>Cu] and [<sup>225</sup>Ac]

### Research & Development

#### Postdoc (R & D)

TRIUMF | March 2018 — August 2020

- Managed & Performed:** Research projects (*Oncology & Neuroimaging*)  
**Title:** Development of radioligands for targeting [LRRK2](#) (neuroimaging) by PET  
**Status:** Completed. Preliminary data obtained; **Benchwork:** January 2019-November 2019, Multistep syntheses of 7 compounds (SFU), radiosyntheses (TRIUMF), biological evaluations (UBC Brain Center & BC Cancer Research Center); [two publications](#);  
**Contribution:** 90% hands-on.



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## SKILLS

### | Pre-Clinical

Imaging: [PET/CT/SPECT](#)

**In Vivo:** Injections (femoral cannulation, intraperitoneal, intramuscular, subcutaneous), IV, blood collection (cardiac puncture, tail vein, orbital sinus (retro-orbital), submandibular), inhaled Isoflurane anesthesia & CO2 euthanasia, tumor cells inoculation, stereotactic brain surgery (mice), [aseptic mice surgery](#) (square knot suture), (IACUC & CCAC trained)

**In Vitro:** Western blotting, gel electrophoresis (SDS-PAGE or agar), metabolite profiling (blood & urine), Cryostat (microtome) for tissue-sections, ARG (autoradiography), LSC (liquid scintillation counter), binding assays, flow cytometry (FACS)

### | Tech

**Drug Design:** Hyperchem, AutoDock 4.0, LigandScout 2.0, Discovery Studio 3.1, AMBER 16 (basics)

**PET/CT Programs:** IRW (Inveon research workplace, Siemens). FireVoxel (NYU-LH), ASIPro, Carimas 2.10

**Healthcare Related:** FHIR (HL7 Qvera Interface Engine (QIE), Meditech, ESO HDE (Health Data Exchange) (Training: HIPA, USA)

**Others:** Graph prism 7 (*In vitro* Assays), Multi Gauge V3 2 (Fuji Films, ARG, Western Blots), Origin, ACD Labs, Chem Bio Draw Ultra, ADF, Adobe Photoshop, LaTeX, EndNote, Zoom, Blender, Canva, Microsoft Office

## LANGUAGES

### | English

Fluent, IELTS: overall band score 7.5

### | German

Working Proficiency, (B1 levels), did Institute, München, Germany

## WORK EXPERIENCE CONTINUED

**Title:** Radiofluorinations by UV-catalysis

**Status:** Preliminary data obtained; Team Member; Co-author in publications; **Benchmark:** March-2018-Feb 2020, BC Cancer Research Center; **Contribution:** Biological Evaluations.

### Associate Researcher

Radiology, NYU-LHC | November 2015 — February 2018

- **Managed & Performed:** Research projects, Pre-clinical PET/CT Imaging (*Neuroimaging*)

### Sr Research Associate & Faculty Member for cGMP

Clinic for Nuclear Medicine, University Hospital, Ulm | March 2013 – November 2015

- **Managed & Performed:** [cGMP production, QA/QC, documentation of clinical](#) and preclinical radiopharmaceuticals; Teaching of radiochemistry to medical students; Assistant supervision / Teaching to students (Diplom / Grad. / PhD in Radiochemistry) for their thesis.

### Postdoc & Staff Member for cGMP

Radiology, Anschutz Medical Campus, Aurora | March 2012 – February 2013

- **Managed & Performed:** Research projects, cGMP production, documentation, QA/QC of preclinical radiopharmaceuticals.

### Research Scientist

Clinic for Nuclear Medicine, University Hospital, Ulm | April 2011 – February 2012

- **Managed & Performed:** Research projects, Assistant supervision / Teaching to students (Diplom / Grad. / PhD in Radiochemistry) for their thesis; Project for development of [Positron Plastic Scintillation Detector](#) (*Raytest GmbH, Germany*)

## CERTIFICATE / LICENSE / Extra-Curricular

**Business Analytics:** Harvard Business School, January 2020 – March 2020

**Sustainable Business Strategy:** Harvard Business School, February 2020 – March 2020

**CIRTL Associate:** Instructional Skills Workshop (ISW), UBC, June 2020

**Radioactive Material Licenses:** City of New York, License # 52-2955-06, (*Exp. Jan 2020*)

**SCWIST Volunteer of the Month Award** (October 2020)

**Travel Award** by Society of Nuclear Medicine, USA (SNM, June 2011, San Antonio).

**DAAD scholarship:** PhD, Germany (2008)

**Impromptu debater** (Twice District / Province Level Winner during school)

**Double Gold Medalist** for distinction throughout school

## EVENTS / WORKSHOPS

- Organized & moderated an International Event ([Virtual, zoom](#)): [“International Perspectives On Advancing Women In Stem Careers And Leadership”](#) (SCWIST, 25th Sep 2020) ([Chair: Dr Khristine Carino, Director Events, SCWIST](#))
- Organized & moderated a workshop: [Grant Writing Skills](#) (TRIUMF, Feb 2020).
- Organized & managed a STEM Event: [She-Leads \(Career Development: Women in STEM\)](#) (TRIUMF, Feb 2020) ([Chair: Prof Dr Reiner Kruecken, Deputy Director Research, TRIUMF](#)).



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## M E N T O R S

### | Science

**Prof. Dr. rer. nat. Hans-Jürgen Machulla**

Clinic for Nuclear Medicine,  
University Hospital Tübingen  
Germany

**Prof. Dr.Dr.h.c.mult. Wolfgang Voelter**

Interfakultäres Institut für Biochemie  
Eberhard-Karls-Universität Tübingen  
Germany

**Dr. Thomas J Ruth (FRSC)**

Senior Advisor, Emeritus  
Fellow of the Royal Society of Canada  
Founder of Nuclear Medicine Program  
TRIUMF & BCCRC  
Adjunct Prof., Dept. Med., UBC  
Adjunct Prof., Dept. Physics & Astronomy,  
University of Victoria, Canada

### | Business

**Kevin McDuffie**

Director, Business Development  
TRIUMF Innovations, Canada

### | Colleagues

**Dr. rer. nat. Bin Shen**

Director,  
Cyclotron & Radiochemistry Facility (CRF)  
Molecular Imaging Program (MIP) Stanford  
University Medical Center  
Stanford, USA

**Dr. Anne Trudel**

Former Chief Safety Officer (CSO)  
Environment, health, and safety  
TRIUMF, Canada

**Dr. Andrew Gifford**

Chairman & Chief Scientific Officer  
Gifford Bioscience Ltd., Birmingham, UK  
Fmr. Sr Scientist,  
BNL (Brookhaven National Laboratory),  
New York, USA

## M E M B E R S H I P S / R E V I E W E R

- Member of Society of Nuclear Medicine and Molecular Imaging (SNMMI), since 2017.
- Member of World Molecular Imaging Congress (WMIC), since 2016.
- Member of Amnesty International (AI) & SOS Children Villages, since 2020.
- Member of International Rescue Committee (IRC), since 2016.
- Member of International Youth Council, United Nations (IYC-UN), since 2010.
- Potential reviewer of *Mol Imag Biol* (Impact Factor: 3.34), since 2014.
- Potential reviewer of *Metabol* (Impact Factor: 6.513), since 2018

## P U B L I C A T I O N S ( 2 0 1 0 - P r e s e n t )

Corresponding Author\*: 6, Equally contributed#: 1, First Author: 11, Last Author: 9,  
H-Index: 11, Citations: 552, **Total: 28**

Complete Bibliography (eRA Commons: malikn06):

<https://www.scopus.com/authid/detail.uri?authorId=35190681600>

## T a l k s / C o n f e r e n c e - A b s t r a c t s ( S i n c e 2 0 1 0 )

### As a Speaker:

- "[Repairing the Impaired Brain Machinery](#)" in Brownbag series (SCWIST, January 2021), Vancouver, Canada

### Conference Presentations:

- "[Synthesis and in vitro and in vivo evaluation of a novel radioligand for LRRK2](#)" in Society of Nuclear Medicine (SNMMI, 2017), Denver, USA.
- "[Effects of high-fat diet on brown adipose tissue \(BAT\) activity in wild type vs. RAGE null mice](#)" in Society of Nuclear Medicine (SNMMI, 2017), Denver, USA.
- "[Synthesis and evaluation of \[<sup>3</sup>H\]LRRK2-IN-1 as a novel radioligand for in vitro and in vivo studies on LRRK2](#)" in International Symposium on Radiopharmaceutical Sciences (ISRS, 2017) in Dresden, Germany.
- "[Role of the brown adipose tissue activity in mice devoid of the receptor for advanced glycation endproducts \(RAGE\)](#)" in World Molecular Imaging Congress (WMIC, 2016) in New York, USA.
- "[Efficient radiofluorinations of potential PSMA ligands with Al<sup>18</sup>F and biological evaluations](#)" in European association of nuclear medicine (EANM, 2014) in Gothenburg, Sweden.
- "[Effiziente Radiofluorierung des PSMA Liganden DTPA-CHX-A''-DUPA-Pep via Al<sup>18</sup>F](#)" in Deutsche Gesellschaft für Nuklearmedizin (DGN, 2014), Hannover, Germany.
- "[One pot radiosynthesis of a new PSMA ligand \[Al<sup>18</sup>F\]NOTA-DUPA-Pep](#)" in Society of Nuclear Medicine (SNM, 2012), Miami beach, USA.
- "[A novel approach for imaging hypoxia: Tyrosine coupled with 2-nitroimidazole \(\[<sup>18</sup>F\]FNT\)](#)" in Society of Nuclear Medicine (SNM, 2011), San Antonio, USA.
- "[Nucleophilic substitution by \[<sup>18</sup>F\]-fluoride at pyridines suited as a surrogate of benzene in biomolecules](#)" in European association of nuclear medicine (EANM, 2010) in Vienna, Austria.

### Abstracts:

- 17 International Conference Abstracts (Most of them are published in JNM).